

SEQUENCE LISTING

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<220>
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<210> 258

<211> 20
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 <213> Artificial Sequence

 <220>
 <223> synthetic oligonucleotide

 <400> 258
 ggtaccggac atccggcaac 20

<210> 259
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 <400> 259
 ccggcagatc gcccccgcc 20

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 <400> 260
 ggtggtggcg ctgatacatc 20

<210> 261
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 cttcacgagg cagacctcag cgcctaagct ttatcgaagc aaaataag 48

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 <220>
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 ccacgcctgt gaatcttccg 20

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 <400> 266
 cgaagctgat gtttgcgtcc 20

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<220>
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ggggatgcca ttatggagtg 20

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<400> 272
caccaaacga ctcagcatgg 20

<210> 273
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 ctgcattttc tatttcgacg 20

<210> 276
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 gaaccttgcg acgacttgcc 20

<210> 277
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<210> 278
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 <400> 278
 ccctgatact caccaggcat c 21

<210> 279
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 <400> 281
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 <400> 282
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<210> 283
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 gaacagctct atgaagactt cttaac 26

<210> 290
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 gctgcaggac tttaacctgc ttcacat 27

<210> 291
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 <212> DNA
 <213> Artificial Sequence
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 gttggcgggt atcgggattg gtgtc 25

<210> 292
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<400> 292
 gtaatgcgat tttcatcctg cacc 24

<210> 293
 <211> 26
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<400> 293
 ccctcatcgc tgcggcgatt ttaagc 26

<210> 294
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<210> 295
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<400> 295
 ggctgctggt cgcaaataaa tcag 24

<210> 296
 <211> 24
 <212> DNA
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<220>
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<400> 296
 gcaaggatca aacgtgctgt acgc 24

<210> 297
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> synthetic oligonucleotide

<400> 297
 atgaccagcc aactggaac 20

<210> 298
 <211> 20
 <212> DNA
 <213> Artificial Sequence

<220>
<223> synthetic oligonucleotide

<400> 298
cttcctcccc gctgaaagta

20

<210> 299
<211> 219
<212> PRT
<213> Escherichia coli

<400> 299

Met Asp Arg Ile Val Ser Ser Ser His Asp Arg Thr Ser Leu Leu Ser
1 5 10 15

Thr His Lys Val Leu Arg Asn Thr Tyr Phe Leu Leu Ser Leu Thr Leu
20 25 30

Ala Phe Ser Ala Ile Thr Ala Thr Ala Ser Thr Val Leu Met Leu Pro
35 40 45

Ser Pro Gly Leu Ile Leu Thr Leu Val Gly Met Tyr Gly Leu Met Phe
50 55 60

Leu Thr Tyr Lys Thr Ala Asn Lys Pro Thr Gly Ile Ile Ser Ala Phe
65 70 75 80

Ala Phe Thr Gly Phe Leu Gly Tyr Ile Leu Gly Pro Ile Leu Asn Thr
85 90 95

Tyr Leu Ser Ala Gly Met Gly Asp Val Ile Ala Met Ala Leu Gly Gly
100 105 110

Thr Ala Leu Val Phe Phe Cys Cys Ser Ala Tyr Val Leu Thr Thr Arg
115 120 125

Lys Asp Met Ser Phe Leu Gly Gly Met Leu Met Ala Gly Ile Val Val
130 135 140

Val Leu Ile Gly Met Val Ala Asn Ile Phe Leu Gln Leu Pro Ala Leu
145 150 155 160

His Leu Ala Ile Ser Ala Val Phe Ile Leu Ile Ser Ser Gly Ala Ile
165 170 175

Leu Phe Glu Thr Ser Asn Ile Ile His Gly Gly Glu Thr Asn Tyr Ile
180 185 190

Arg Ala Thr Val Ser Leu Tyr Val Ser Leu Tyr Asn Ile Phe Val Ser
195 200 205

Leu Leu Ser Ile Leu Gly Phe Ala Ser Arg Asp
210 215

<210> 300
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<400> 300
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 gccagtacgg tgctgatgct gccatctccg ggtctgattc tgacgctggt gggatatgtat 180
 ggtttgatgt tcctgaccta taaaacggcg aataagccga ccgggattat ctccgcattc 240
 gcctttaccg gttttctggg ttatatcctc ggacctattc tgaacaccta tctgtctgcc 300
 ggaatgggtg acgtaatcgc tatggcactg ggcggaacgg cgttagtgtt cttctgctgc 360
 tctgcatatg tgctgaccac ccgcaaagat atgtcgttcc tcggcgggat gctgatggcg 420
 ggtattgtgg tgggtgctgat tggatatggt gcgaatatct tcctgcagct gcctgctctg 480
 catctggcga tcagcgcggt cttcattctg atctcctctg gcgctatctt gtttgaaacc 540
 agcaacatca ttcattggcg tgagacgaac tatattcgtg ccacggttag cctgtatggt 600
 tcgctgtaca acatcttctg cagcctgctg agcattctgg gcttcgctag ccgcgattaa 660

<210> 301
 <211> 179
 <212> PRT
 <213> Escherichia coli

<400> 301

Met Asn Lys Ser Met Leu Ala Gly Ile Gly Ile Gly Val Ala Ala Ala
 1 5 10 15

Leu Gly Val Ala Ala Val Ala Ser Leu Asn Val Phe Glu Arg Gly Pro
 20 25 30

Gln Tyr Ala Gln Val Val Ser Ala Thr Pro Ile Lys Glu Thr Val Lys
 35 40 45

Thr Pro Arg Gln Glu Cys Arg Asn Val Thr Val Thr His Arg Arg Pro
 50 55 60

Val Gln Asp Glu Asn Arg Ile Thr Gly Ser Val Leu Gly Ala Val Ala
 65 70 75 80

Gly Gly Val Ile Gly His Gln Phe Gly Gly Gly Arg Gly Lys Asp Val
 85 90 95

Ala Thr Val Val Gly Ala Leu Gly Gly Gly Tyr Ala Gly Asn Gln Ile
 100 105 110

Gln Gly Ser Leu Gln Glu Ser Asp Thr Tyr Thr Thr Thr Gln Gln Arg
 115 120 125

Cys Lys Thr Val Tyr Asp Lys Ser Glu Lys Met Leu Gly Tyr Asp Val
 130 135 140

Thr Tyr Lys Ile Gly Asp Gln Gln Gly Lys Ile Arg Met Asp Arg Asp
 145 150 155 160

Pro Gly Thr Gln Ile Pro Leu Asp Ser Asn Gly Gln Leu Ile Leu Asn
 165 170 175

Asn Lys Val

<210> 302
 <211> 540
 <212> DNA
 <213> Escherichia coli

<400> 302
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 gcagtggcca gtctgaacgt gtttgaacgg ggcccgcaat acgctcaggt tgtttctgca 120
 accccaatca aggaaacggt taaaacaccg cgtcaggagt gtcgcaacgt cacagtgacc 180
 catcgctgac cgggtgcagga tgaaaatcgc attaccgggt cgggtgctcgg cgctgttgct 240
 ggcggcgctga tagggcatca gtttggtggt ggtcgcggta aagatgtcgc cactgtttgtg 300
 ggggcgctgg gtggtggata tgccggtaac cagatccagg gctctctcca ggaaagcgat 360
 acttacacga ctacgcaaca gcgttgtaaa acggtgtatg acaagtcaga aaaaatgctc 420
 ggttatgatg tgacctataa gattggcgat cagcagggca aaatccgcat ggaccgcat 480
 ccgggtacgc agatcccgt agatagcaac gggcaactga ttttgaataa caaagtataa 540

<210> 303
 <211> 84
 <212> PRT
 <213> Escherichia coli

<400> 303

Met Glu Lys Asn Asn Glu Val Ile Gln Thr His Pro Leu Val Gly Trp
 1 5 10 15

Asp Ile Ser Thr Val Asp Ser Tyr Asp Ala Leu Met Leu Arg Leu His
 20 25 30

Tyr Gln Thr Pro Asn Lys Ser Glu Gln Glu Gly Thr Glu Val Gly Gln
 35 40 45

Thr Leu Trp Leu Thr Thr Asp Val Ala Arg Gln Phe Ile Ser Ile Leu
 50 55 60

Glu Ala Gly Ile Ala Lys Ile Glu Ser Gly Asp Phe Gln Val Asn Glu
 65 70 75 80

Tyr Arg Arg His

<210> 304

<211> 255

<212> DNA

<213> Escherichia coli

<400> 304

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caggaaggga ctgaagttag tcagacgctc tggttaacca ctgatgttgc cagacaattt	180
atttcgatat tagaagcagg aatcgccaaa attgaatccg gtgatttcca ggtaaacgag	240
tatcggcgctc attaa	255